

THE INVENTION CLAIMED IS:

1. An apparatus for cleaning a substrate,  
comprising:

5 a plurality of rollers adapted to support a  
substrate in a vertical orientation;

(a) scrubber brush adapted to contact a  
substrate supported by the plurality of rollers; and

10 a sonic nozzle positioned at an elevation  
below the elevation of the scrubber brush and adapted so as  
to output a sonicated fluid spray that contacts a beveled  
edge such that fluid having sufficient sonic energy to harm  
the scrubber brush will not contact the scrubber brush.

15 2. The apparatus of claim 1 wherein the sonicated  
fluid is directed off of the substrate.

20 3. The apparatus of claim 1 wherein the scrubber  
brush is adapted to contact a substrate supported by the  
plurality of rollers along a diameter of the substrate.

25 4. The apparatus of claim 1 wherein the scrubber  
brush is adapted to contact a substrate supported by the  
plurality of rollers along a radius of the substrate.

5. The apparatus of claim 1 wherein the scrubber  
brush is sponge-like. 117

30 6. The apparatus of claim 1 wherein the sonicated  
fluid spray contacts a beveled edge of a substrate at a  
position between the plurality of rollers.

7. An apparatus for cleaning a substrate,  
comprising:

a plurality of rollers adapted to support a  
substrate in a vertical orientation;

5 a scrubber brush adapted to contact a  
substrate supported by the plurality of rollers; and

a sonic nozzle positioned at an elevation  
below the elevation of the scrubber brush and adapted so as  
to output a sonicated fluid spray that contacts a major  
10 surface of a substrate supported by the plurality of rollers  
at a position below the roller brush such that fluid having  
sufficient sonic energy to harm the scrubber brush will not  
contact the scrubber brush.

15 8. The apparatus of claim 7 wherein the sonicated  
fluid is directed off of the substrate.

9. The apparatus of claim 7 wherein the scrubber  
brush is adapted to contact a substrate supported by the  
20 plurality of rollers along a diameter of the substrate.

10. The apparatus of claim 7 wherein the scrubber  
brush is adapted to contact a substrate supported by the  
plurality of rollers along a radius of the substrate.

25 11. The apparatus of claim 7 wherein the scrubber  
brush is sponge-like. "2